

P20- Using Averages to Compare Data

OCR

Edexcel

AQA

19 The following data comes from a large sample survey of the audience at a concert.

Video created by W Neill

P20

| | Percentage | Mean age (years) | Age range (years) |
|--------|------------|------------------|-------------------|
| Male | 17% | 20.3 | 6 |
| Female | 83% | 25.7 | 28 |

Make **three** comparisons of males and females at the concert. [3 marks]

Use the headings given.

Proportion of the audience _____

Average age _____

Spread of ages _____

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% Proportion of the audience Much more of the audience is female... 83% compared with 17%.

Mean Average age Females on average are older than males 25.7 is greater than 20.3

Range Spread of ages Female ages are much more spread out female range = 28 compared with male range = 6 ✓

15

100 men and 100 women took a test.

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Scores

| | Median | Interquartile range | Range |
|-------|--------|---------------------|-------|
| Men | 28 | 7.5 | 31 |
| Women | 30 | 9 | 37 |

Using this data, which statement **must** be true?

Tick **one** box.

[1 mark]

Men had a higher average score than women

Men had more consistent scores than women

A woman had the highest score

A man had the lowest score

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